

# GGT1 Recombinant monoclonal antibody

Catalog Number: 83304-1-RR

## Basic Information

Catalog Number: 83304-1-RR	GenBank Accession Number: NM_013430	Purification Method: Protein A purification
Source: Rabbit	GeneID (NCBI): 2678	CloneNo.: 230428B5
Isotype: IgG	UNIPROT ID: P19440	Recommended Dilutions: WB: 1:5000-1:50000 IHC: 1:500-1:2000
Immunogen Catalog Number: AG34209	Full Name: gamma-glutamyltransferase 1	
	Calculated MW: 61 kDa	
	Observed MW: 24 kDa	

## Applications

Tested Applications: WB, IHC, ELISA	Positive Controls:
Species Specificity: human	WB : human kidney tissue, IHC : human intrahepatic cholangiocarcinoma tissue,
<b>Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0</b>	

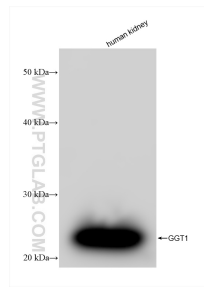
## Background Information

GGT1 is a transpeptidase whose activity increases the availability of amino acids, primarily cysteine, for intracellular GSH synthesis. GGT1 also plays a critical role in maintaining GSH homeostasis and defense against oxidative stress. In liver and obstructive biliary diseases, circulating GGT1 activity has widely been used for diagnosis purposes, as well as an indicator of alcohol consumption. (PMID: 31151999)

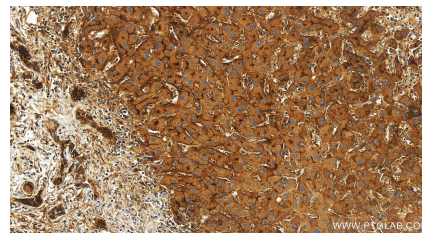
## Storage

**Storage:**  
Store at -20°C. Stable for one year after shipment.  
**Storage Buffer:**  
PBS with 0.02% sodium azide and 50% glycerol, pH7.3  
Aliquoting is unnecessary for -20°C storage

## Selected Validation Data



Human kidney tissue were subjected to SDS PAGE followed by western blot with 83304-1-RR (GGT1 antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded human intrahepatic cholangiocarcinoma tissue slide using 83304-1-RR (GGT1 antibody) at dilution of 1:1000 (under 20x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).